Funding Recommendations for the Cycle 10 Specialized Transportation Grant Program Call for Projects

Transportation Committee Item 8 | March 15, 2019

Applications

<table>
<thead>
<tr>
<th>Funding Source</th>
<th>Projects</th>
<th>Amount Requested</th>
</tr>
</thead>
<tbody>
<tr>
<td>FTA Section 5310</td>
<td>62</td>
<td>$6.4 million</td>
</tr>
<tr>
<td>TransNet Senior Mini-Grant</td>
<td>21</td>
<td>$5 million</td>
</tr>
<tr>
<td>Combined</td>
<td>83</td>
<td>$11.4 million</td>
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</table>
Funding Recommendations

<table>
<thead>
<tr>
<th>Funding Source</th>
<th>Projects Recommended for full (and partial) funding</th>
<th>Awarded Funding</th>
</tr>
</thead>
<tbody>
<tr>
<td>FTA Section 5310</td>
<td>42 (4)</td>
<td>$4.1 million</td>
</tr>
<tr>
<td>TransNet Senior Mini-Grant</td>
<td>10 (1)</td>
<td>$3.1 million</td>
</tr>
<tr>
<td>Combined</td>
<td>52 (5)</td>
<td>$7.2 million</td>
</tr>
</tbody>
</table>

Recommended Projects
Next Steps

<table>
<thead>
<tr>
<th>Activity</th>
<th>Anticipated Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Board of Directors considers funding recommendations</td>
<td>March 22, 2019</td>
</tr>
<tr>
<td>RTIP Amendment</td>
<td>April, 2019</td>
</tr>
<tr>
<td>Execute Senior Mini-Grant contracts</td>
<td>July 1, 2019</td>
</tr>
<tr>
<td>Execute Section 5310 contracts</td>
<td>October 1, 2019</td>
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</tbody>
</table>

Recommendation

The Transportation Committee is asked to recommend that the Board of Directors:

1. approve the proposed funding awards for the Cycle 10 Specialized Transportation Grant Program Call for Projects (Attachment 1 and 2); and

2. in the event that a selected project is unable to use its awarded funds or more funding becomes available, authorize staff to offer funding and execute a grant agreement with the next highest ranked project(s).
Del Mar Bluffs Stabilization Update

Transportation Committee Item 9 | March 15, 2019

Del Mar Bluffs Stabilization

1. **Completed projects**
2. **Short-term**: Del Mar Bluffs 4 update
3. **Mid-term**: Prioritization of future bluffs stabilization until 2050
   - Del Mar Bluffs 5
   - Del Mar Bluffs 6
4. **Long-term**: Tunnel options
Del Mar Bluffs Completed Projects

- 2000 Del Mar Bluffs Geotech Study (NCTD)
- 2001 Emergency Repairs at 8th St. (NCTD)
- 2001 Drainage Study (NCTD)
- 2003 Drainage Improvements (NCTD)
- 2007 Del Mar Bluffs 2 Stabilization with Soldier Piles (SANDAG)
- 2009 Del Mar Bluffs 3 Stabilization with Soldier Piles (SANDAG)
In Del Mar Bluffs 2 and 3, 200 piles were installed in areas shown green and yellow.

Recent Bluff Retreat
South of 10th Street – Late 2018

Minimum of 40 feet between 9th and 11th streets
Recent Bluff Retreat
14th Street on February 15, 2019

- Average of 8 to 10 feet from edge of tie to face of pile from 11th St. to 14th St.

Piles and Lagging

- Existing Track
- Grade Beam
- Vertical Pile
- Original Ground
- Tieback Anchor (Optional)
Piles and Lagging

Improvements
- Repair existing drainage structures
- Use piles to stabilize slopes

Project budget
- $3 million

Status
- Preliminary engineering completed
- Environmental clearance in April 2018
- Permits spring 2019; Coastal Consistency Certification February 8, 2019
- Final engineering in progress
- Funding allocated by CTC March 14, 2019
- Construction to begin in fall 2019

Del Mar Bluffs Stabilization 4

Improvements
- Repair existing drainage structures
- Use piles to stabilize slopes

Project budget
- $3 million

Status
- Preliminary engineering completed
- Environmental clearance in April 2018
- Permits spring 2019; Coastal Consistency Certification February 8, 2019
- Final engineering in progress
- Funding allocated by CTC March 14, 2019
- Construction to begin in fall 2019
Del Mar Bluffs 4  
Stabilize Headwall MP 244.3

Rockscape headwall with soil nail tiebacks

Del Mar Bluffs 4  
New Piling at Sea Walls

New supports for existing bluff sea walls below 13th St. and 8th St.
Del Mar Bluffs 4
Storm Chute below 12th Street

With continued bluff retreat and sea level rise, additional stabilization measures will be needed:

**Del Mar Bluffs 5 - 2050 Stabilization Plan**
- Replace old drainage structures
- Add piles and tie backs
- Localized lagging if retreat accelerates

**Del Mar Bluffs 6**
- Alternatives analysis
- Consider bluff toe protection
- Considering coastal access

**Rough Order of Magnitude Estimates**
- $70-90 million in 2018 dollars
- Schedule depends on funding
- Del Mar Bluffs 5 Design $3.4 million
  Construction $21.6 million
- Del Mar Bluffs 6 Design $6.6 million
  Construction $39.4-59.4 million
Long Term Planning - Del Mar Tunnel Alignment Alternatives

Studied five alignments from Del Mar Fairgrounds to Sorrento Valley as part of San Dieguito Double Track Project

Conceptual Engineering and Environmental Constraints Report in 2017
2017 Summary Comparison: Cost and Description

<table>
<thead>
<tr>
<th>Issue Area</th>
<th>Alternative Alignment</th>
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<tbody>
<tr>
<td></td>
<td>Camino Del Mar</td>
</tr>
<tr>
<td>Total Cost (2017 $B)</td>
<td>$2.5</td>
</tr>
<tr>
<td>Total Length (mi)</td>
<td>5.0</td>
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<tr>
<td>Tunnel Length (ft)</td>
<td>10,200</td>
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<tr>
<td>Type</td>
<td>Cut/cover</td>
</tr>
<tr>
<td>Depth (ft)</td>
<td>10-70</td>
</tr>
<tr>
<td>Travel Time (minutes)</td>
<td>6</td>
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</tbody>
</table>

Source: Conceptual Engineering and Environmental Constraints for Double Track Alignment Alternatives Between Del Mar Fairgrounds and Sorrento Valley, SANDAG, December 2017

Next Steps

- For bluff stabilization
  - Secure funding for coastal access study
  - Permit, bid, and construct Phase 4
  - Prepare the 2050 Stabilization Plan ($70-$90 million)
    - Secure funding for Phase 5
    - Secure design funding for Phase 6
- For the tunnel, if funding allocated
  - Conduct a comparative analysis in order to reduce the number of tunnel alternative alignments
  - Consider capital and operating costs
QUESTIONS?

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